# Green Retrofits for Schools via Rain Gardens

5<sup>th</sup> National Nonpoint Source and Stormwater Outreach Conference May 14, 2009

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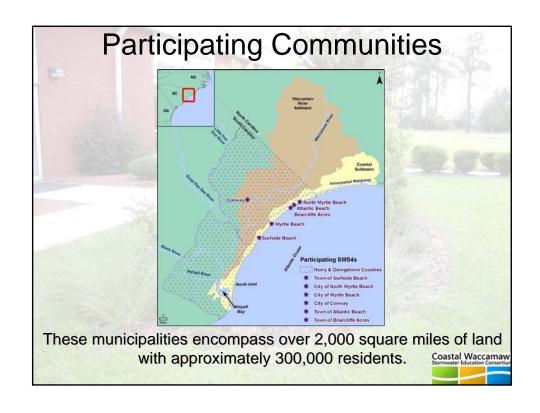


#### Goal

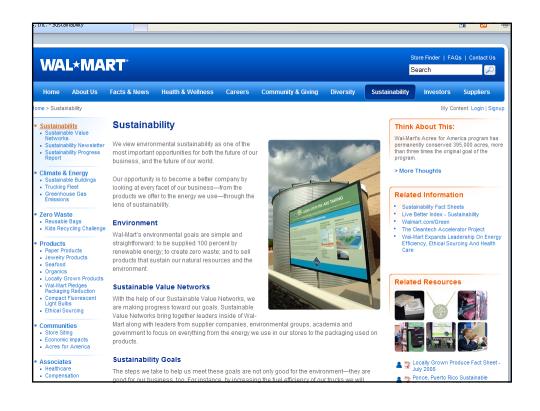
Develop and implement effective, outcomes-based stormwater education and outreach programs to meet federal requirements and satisfy local environmental and economic needs.

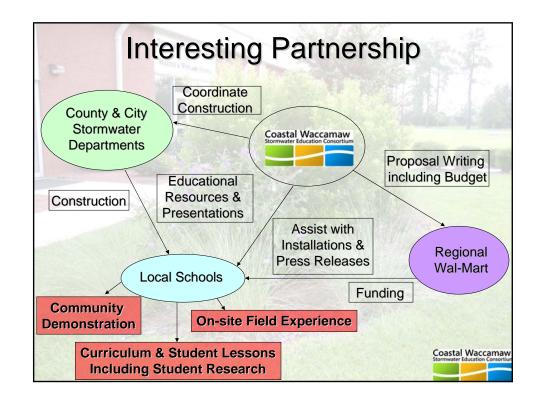


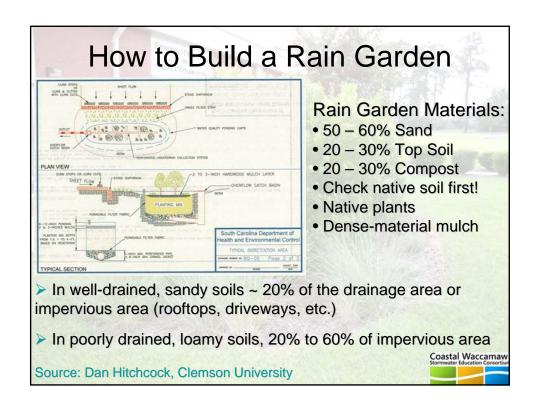














## Socastee High School Check Presentation on December 5, 2007



\$14,000 from 5 Wal-Mart stores for stormwater Best Management Practices (BMPs)

- Infiltration swale & bioretention cell with under drain systems
- Sand, compost, native SC plants, mulch and sod
- Educational & research equipment

Also served as media event to introduce stormwater BMP concept





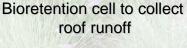


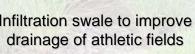
# Socastee High School BMP Installation on April 11, 2008



Media returned for action shots and story

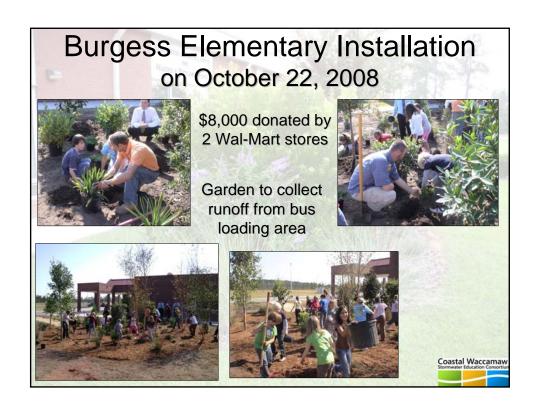


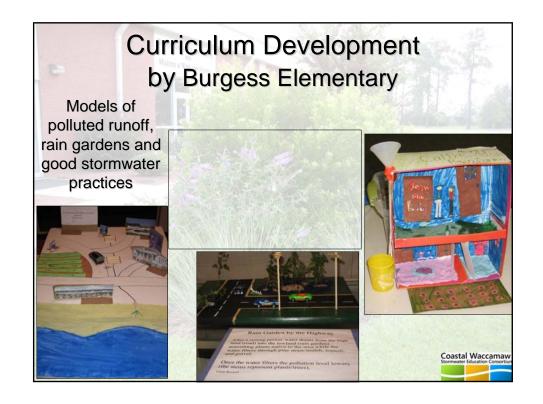


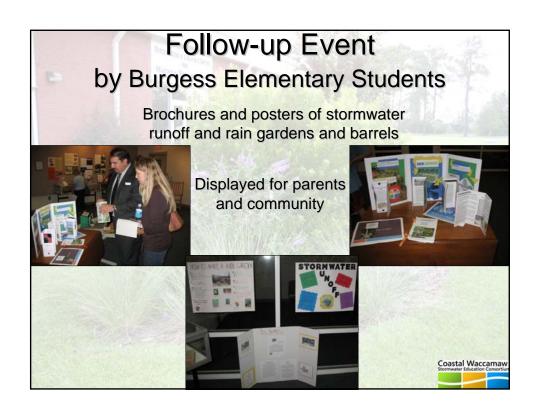






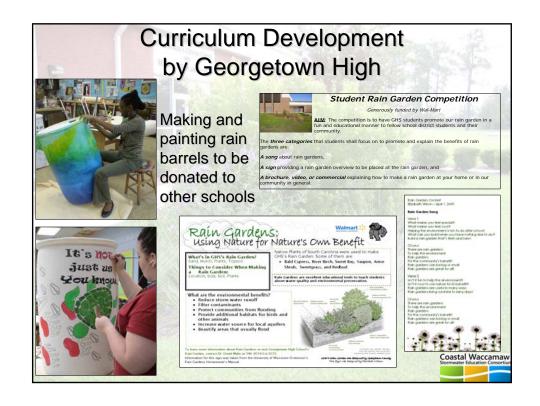


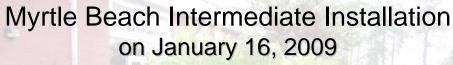
























### **Educational Activities & Equipment**

Monitoring

Water Quality - colorimeter; portable pH/conductivity meter





Rainfall/weather conditions - Davis Wireless Vantage Pro 2 Weather Station

Habitat

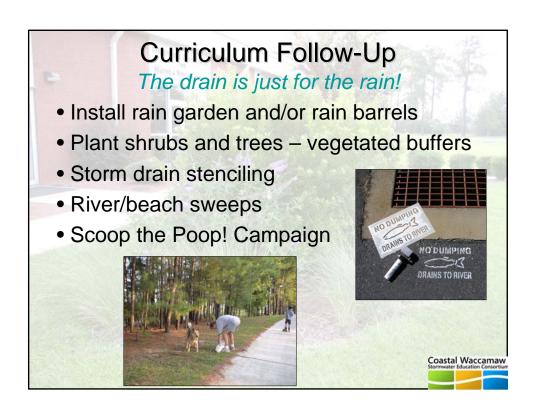
Bioassessment - magnifiers, insect nets

 Watersheds Land Uses & Effects - Enviroscape Model











#### **Lessons Learned**

School	Funds	Lessons Learned
Socastee High	\$14,000	Have check presentation & planting on same day
Burgess Elem.	\$8,000	Elementary students love being involved
Conway High	\$8,600	Needed design adjustments
Georgetown High	\$5,000	Too much for one day
Myrtle Beach Intermediate	\$4,500	Smaller funding requests better

Total Funding (12/07 – 1/09): \$40,100



### Additional Funding Sources

- Captain Planet Foundation
- NSTA Toyota Tapestry Science Grants
- National Gardening Association (with Home Depot)
- Lowe's Outdoor Schoolyard Grant Program
- US Environmental Protection Agency
- Palmetto Pride



